

WHAT IS CLAIMED IS:

1. A light reflection sheet (I) comprising a sheet having a thickness of 0.4 to 2 mm and comprising a polycarbonate resin composition containing (B) titanium oxide, wherein the above sheet has a light reflectance of 98 % or more and a light transmittance of less than 1 %.
2. The light reflection sheet as described in claim 1, wherein the polycarbonate resin composition comprises 85 to 60 mass % of (A) a polycarbonate base polymer and 15 to 40 mass % of (B) titanium oxide.
3. The light reflection sheet as described in claim 1, having a flame retardancy of a V-0 class in a thickness of 0.8 mm in a vertical flame retardant test according to a UL94 method.
4. A production process for the light reflection sheet as described in claim 1, comprising a step (1) of drying a polycarbonate resin composition containing 85 to 60 mass % of (A) a polycarbonate base polymer and 15 to 40 mass % of (B) titanium oxide at 120 to 140°C for 2 to 10 hours, a step (2) of extruding it by means of an extruding machine

equipped with a volatile removing device and a step (3) of molding it into a sheet at a dice temperature of 200 to 260°C and a roll temperature of 120 to 180°C.

5. A molded article prepared by heating the light reflection sheet as described in any of claims 1 to 3 at a temperature of 160 to 200°C and then thermally molding it at a spreading magnification of 1.1 to 2 times.

6. A molded article prepared by thermally molding the light reflection sheet as described in any of claims 1 to 3, wherein an unevenness in a thickness of a reflecting surface is 0.2 mm or less.

7. A light reflection sheet (II) prepared by providing a light-fast layer which cuts or absorbs a UV ray in a thickness of 0.5 to 20 μm on at least one face of a base sheet having a thickness of 0.4 to 2 mm and comprising a polycarbonate resin composition containing a combination of 85 to 60 mass % of (A) a polycarbonate base polymer and 15 to 40 mass % of (B) titanium oxide.

8. The light reflection sheet as described in claim 7, wherein the light-fast layer is constituted from an acryl base resin or a methacryl base resin copolymerized with at least one selected from a polymerizable light stabilizer component and a polymerizable UV absorber component.

9. The light reflection sheet as described in claim 8, wherein the polymerizable light stabilizer component and the polymerizable UV absorber component contain at least one selected from hindered amine base compounds, benzotriazole base compounds and benzophenone base compounds.

10. The light reflection sheet as described in claim 7, wherein a reflectance measured by irradiating the surface of the light-fast layer with light of a visible light region wavelength is 90 % or more.

11. The light reflection sheet as described in claim 7, wherein a color difference (ΔE) between before and after irradiation which is observed when irradiating the surface of the light-fast layer with a UV ray in an energy amount of 20 J/cm² by means of

a high pressure mercury lamp is 10 or less, and a reduction in a reflectance of visible light is 5 % or less.

12. A molded article obtained by thermally molding the light reflection sheet as described in any of claims 7 to 11.

13. A light reflection sheet (III) prepared by providing a light diffusion layer which diffuses and reflects light in a thickness of 0.5 to 20 μm on at least one face of a base sheet having a thickness of 0.4 to 2 mm and comprising a polycarbonate resin composition containing a combination of 85 to 60 mass % of (A) a polycarbonate base polymer and 15 to 40 mass % of (B) titanium oxide.

14. The light reflection sheet as described in claim 13, wherein the light diffusion layer is a layer in which particles having an average particle diameter of 1 to 20 μm selected from organic particles and inorganic particles are dispersed in an acryl base resin or a methacryl base resin.

15. The light reflection sheet as described in

claim 14, wherein the organic particles are particles selected from acryl base cross-linked particles and styrene base cross-linked particles; the inorganic particles are particles selected from silica and titanium oxide; and a content of the above particles is 0.5 to 50 mass % based on the light diffusion layer.

16. The light reflection sheet as described in claim 13, wherein a reflectance measured by irradiating the surface of the light diffusion layer with light of a visible light region wavelength is 90 % or more.

17. The light reflection sheet as described in claim 13, wherein a difference between a total reflectance (SCI) measured by irradiating the surface of the light diffusion layer with light of a visible light region wavelength and a reflectance (SCE) obtained by deducting specular reflection from total reflection is 4 % or less.

18. The light reflection sheet as described in claim 13, wherein the light diffusion layer contains at least one selected from a polymerizable light

stabilizer component and a polymerizable UV absorber component, and the above components are selected from hindered amine base compounds, benzotriazole base compounds and benzophenone base compounds.

19. The light reflection sheet as described in claim 13, wherein a color difference (ΔE) between before and after irradiation which is observed when irradiating the surface of the light diffusion layer with a UV ray in an energy amount of 20 J/cm² by means of a high pressure mercury lamp is 10 or less, and a reduction in a reflectance of visible light is 5 % or less.

20. A molded article obtained by thermally molding the light reflection sheet as described in any of claims 13 to 19.